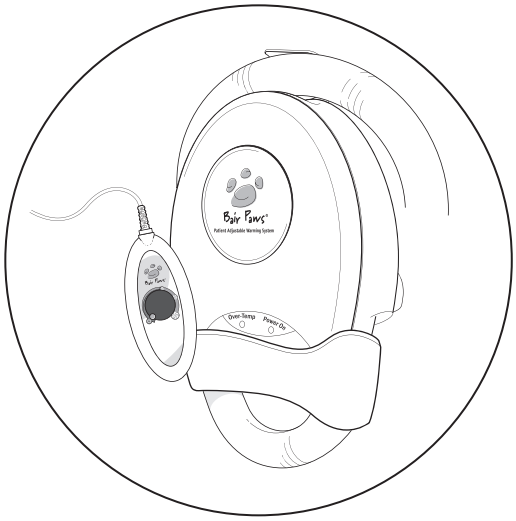
Bair Paws® Model 875 Warming Unit Service Manual



Warning: Electrical Shock Hazard. There are electrically live parts within the warming unit when it is connected to a power source, even when the handheld temperature controller is in the OFF position.

Please forward to Biomedical Engineering Department

Bair Paws®

Patient Adjustable Warming System

by Bair Hugger® Therapy

Table of Contents

Introduction to the Bair Paws® Patient Adjustable Warming System 1

Important Information about the Bair Paws Model 875 Warming Unit 2
- Indications/Intended Use 2
- Contraindication 2
- Warnings 2
- Cautions 3
- Notices 3
- Proper Use and Maintenance 3
- Read Before Servicing Unit 3
- Safety Inspection 3

Preparing the Bair Paws Model 875 Warming Unit for Use 4
- Installing the Wall-mount Bracket 4
- Placing the Warming Unit on the Wall-mount Bracket 5
- Mounting the Warming Unit on an IV Pole 6
- Mounting the Warming Unit on a Bedrail 7
- Mounting the Warming Unit with a Rail-mount to the Wall 8
- Using the Hand-held Temperature Controller 9
- Using the Holder for the Hand-held Temperature Controller 9

Service Procedures 10
- Calibrating the Operating Temperatures 10
- Testing the Over-temperature (OT) Circuit 13
- Replacing the Filter 14
- Replacing the Temperature Controller and/or Hose 15
- Replacing the Power Cord 18
- Cleaning the Warming Unit 19

Technical Support and Customer Service 20
- U.S. Customer Service 20
- When You Call for Technical Support 20
- Repair and Exchange 20

Specifications 21

Definition of Symbols 23

Maintenance Log 24

Introduction to the Bair Paws® Patient Adjustable Warming System

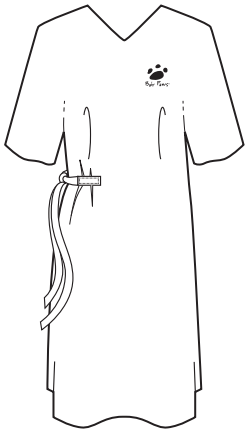
The Bair Paws patient adjustable warming system consists of the Model 875 forced-air warming unit and disposable warming gowns. The Bair Paws Model 875 warming unit can provide comfort warming and prewarming to patients in preoperative settings. In postoperative settings the warming unit can provide comfort warming.

This manual includes service procedures and unit specifications for the Model 875 warming unit. Please refer to the Instructions for Use for more information about the gowns.

Bair Paws Model 875 Warming Unit

The Bair Paws Model 875 warming unit has the following key elements: a blower, a heating element, and a hand-held temperature controller. The warming unit delivers warmed air through a hose that is connected to a port in a Bair Paws gown. The patient can adjust the air temperature and airflow using the temperature controller.

Bair Paws Warming Gowns



The Bair Paws single-use warming gown has an integral, channeled insert that delivers warm air through small perforations to warm the patient. Air channels and hose ports enable comfort and prewarming with a Bair Paws 800 series warming unit or clinical warming with a Bair Hugger® 500 or 700 series temperature management unit. The gown also has Velcro® fastener strips on each shoulder that provide easy access to the patient's arms and chest. The Bair Paws warming gowns are latex-free.

VELCRO is a registered trademark of Velcro Industries B.V.

Important Information about the Bair Paws Model 875 Warming Unit

Indications/Intended Use

The Model 875 warming unit is indicated for patient warming. This warming unit has been designed for use with the Bair Paws warming gowns in all preoperative and postoperative settings.

Contraindication

Do not apply heat to lower extremities during aortic cross-clamping. Thermal injury may occur if heat is applied to ischemic limbs.

Warnings

- Use only Bair Paws warming gowns with this warming unit. This warming unit has been designed to operate safely with Bair Paws warming gowns; use with other products may cause thermal injury. To the full extent permitted by law, the manufacturer and/or importer declines all responsibility for thermal injury resulting from the unit being used in conjunction with products other than Bair Paws warming gowns.
- Do not warm patients with the warming unit's hose alone. Thermal injury may result. Always connect the hose to a Bair Paws warming gown before providing patient warming.
- Do not continue warming if the red Over-temp indicator light illuminates or an audible alarm sounds; thermal injury may result. Turn the warming unit OFF.
- Do not use a forced-air warming device over transdermal medications; increased drug delivery, patient death, or injury may occur.
- Do not allow the warming unit's hose to contact the patient's skin during patient warming. Thermal injury may result.
- Equipment not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.
- This warming unit is not intended for use in the operating room.
- Position the temperature controller cord and the hose away from the patient's neck or shoulders to avoid entanglement and/or injury.

Cautions

1. Do not initiate patient warming unless the warming unit is safely placed on a hard surface or securely mounted. Otherwise, injury may result.
2. Electrical shock hazard. Do not disassemble the warming unit unless you are a qualified service technician. There are electrically live parts within the unit when it is connected to a power source, even when the unit is in OFF or Standby mode.

Notices

1. The Bair Paws warming unit meets the international electronic interference requirements. If radio frequency interference with monitoring equipment occurs, connect the warming unit to a different power source.
2. Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare professional.
3. To reliably ground this warming unit, only connect to receptacles marked "Hospital Only" or "Hospital Grade."

Proper Use and Maintenance

Arizant Healthcare Inc. assumes no responsibility for the reliability, performance, or safety of the unit if any of the following events occur:

- Modifications or repairs are performed by unqualified personnel.
- The warming unit is used in a manner other than that described in the Operator's Manual or Service Manual.
- The warming unit is installed in an environment that does not meet the appropriate electrical and grounding requirements.

Read Before Servicing Unit

All repair, calibration, and servicing of the Model 875 warming unit must be performed by qualified, medical equipment service technicians who are familiar with good practice for medical device repair. If the warming unit does not require the manufacturer's attention, Arizant Healthcare Inc. will ship replacement parts to your location. Perform all repairs and maintenance in accordance with the instructions provided with the replacement parts.

Safety Inspection

Perform a safety inspection after making repairs to the Model 875 unit and before returning the unit to service. A safety inspection should include calibrating the operating temperature settings and testing the over-temperature detection function as described in the *Service Procedures* section as well as testing for leakage current and continuity check on safety ground.

Preparing the Bair Paws Model 875 Warming Unit for Use

Before using the warming unit, make sure that it is safely placed on a flat, hard surface such as a table, or securely mounted on a wall, IV pole, or bedrail.

Caution: Do not place the warming unit on a soft or uneven surface, such as a bed; this may cause the air intake to become blocked, compromising the unit's performance.

A wall-mount bracket is shipped with every warming unit; the brackets for mounting the warming unit to an IV pole or a bedrail are available separately. Please contact your local sales representative or call Arizant Healthcare® Customer Service at 1-800-733-7775 for more information about ordering mounting brackets.

Installing the Wall-mount Bracket

1. Using the four wall-screw holes on the wall-mount bracket (see Figure 1) as a template, mark the position for the four wall anchors on the desired wall. The use of a level is recommended.
2. Install four suitable wall anchors at the marked positions. If using the provided self-drilling wall anchors, use a Phillips screwdriver to screw the anchors into position. If installing into industrial-grade plasterboard, predrilling may be required.
3. Hold the wall-mount bracket in position against the wall.
4. Screw the four provided screws through the wall-mount holes and into the wall anchors.

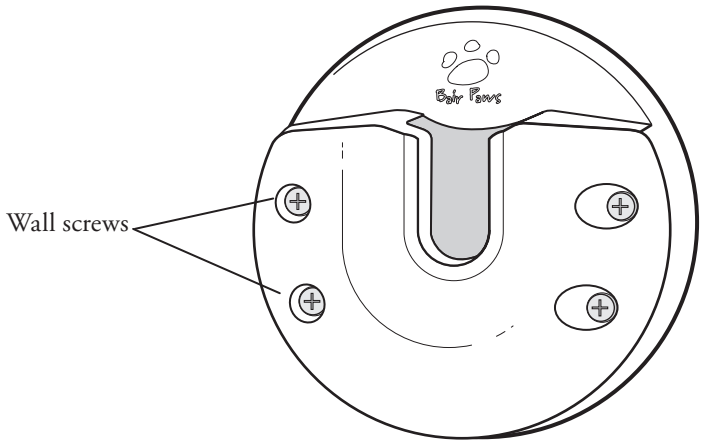


Figure 1. Front view of wall-mount bracket.

Placing the Warming Unit on the Wall-mount Bracket

1. Snap the warming unit into position by sliding the clip on the back of the warming unit into the groove of the wall-mount bracket. The assembly will click when the clip is fully seated in the wall-mount bracket.
2. Lift the warming unit straight up to remove it from the wall-mount bracket.

   NOTE: It may be necessary to gently strike the case bottom in an upward fashion with the palm of your hand to release the clip from the wall-mount bracket.

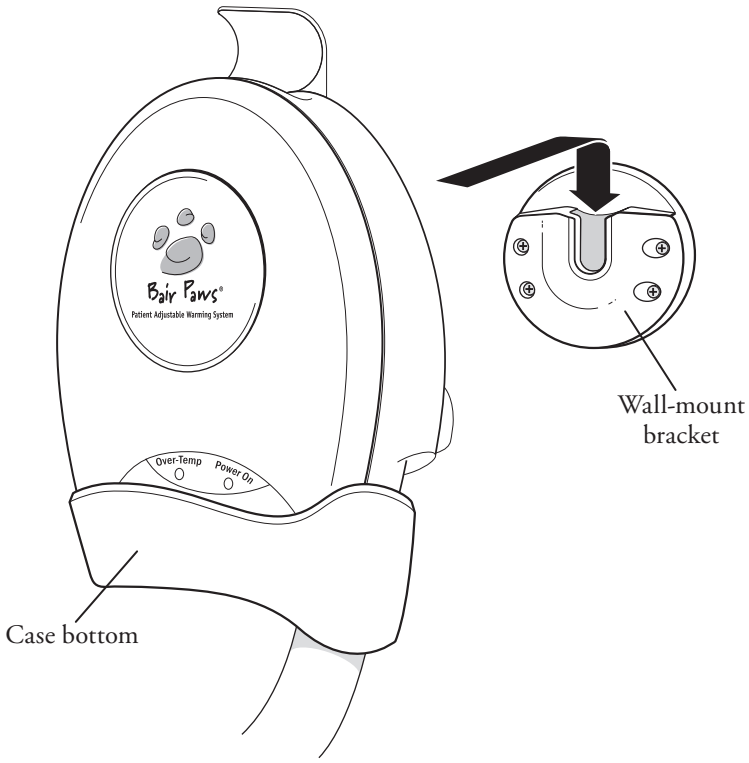


Figure 2. Inserting the warming unit into the groove of the wall-mount bracket.

Mounting the Warming Unit on an IV Pole

Caution: To prevent tipping, mount the Model 875 warming unit on an IV pole at a height that ensures stability. We recommend mounting the warming unit no higher than 44 in. (112 cm) from the floor on an IV pole with a minimum wheelbase radius of 14 in. (35.6 cm). Failure to do so may result in IV pole tipping, leading to potential catheter site trauma and other patient injuries.

1. Position the IV pole-mount at the desired height on the IV pole.
2. Turn the clamp knob on the IV pole-mount clockwise to tighten the clamp to the pole (Figure 3).
3. Snap the warming unit into position by sliding the clip on the back of the warming unit into the groove of the IV pole-mount. The assembly will click when the clip is fully seated in the IV pole-mount.

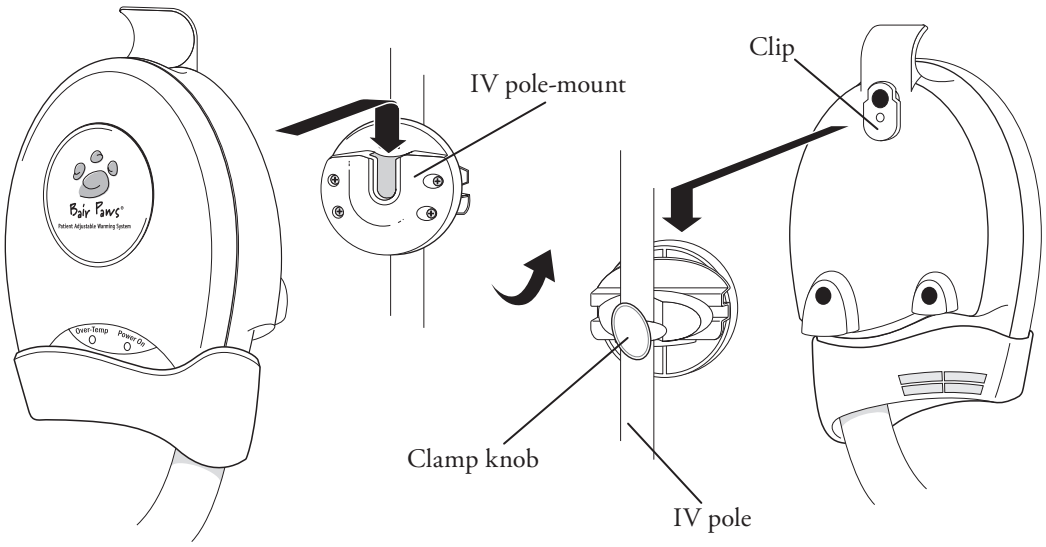


Figure 3. Installing a warming unit onto an IV pole.

Mounting the Warming Unit on a Bedrail

1. Slide the clip on the back of the warming unit into the groove of the rail-mount bracket. The assembly will click when the clip is fully seated in the rail-mount.
2. Hang the Model 875 warming unit on the bedrail by the hooks on the rail-mount.
3. Wrap the safety strap around the bedrail and connect the end to the fastener on the strap. The safety strap will prevent the warming unit from falling if the unit is accidentally dislodged from the bedrail.

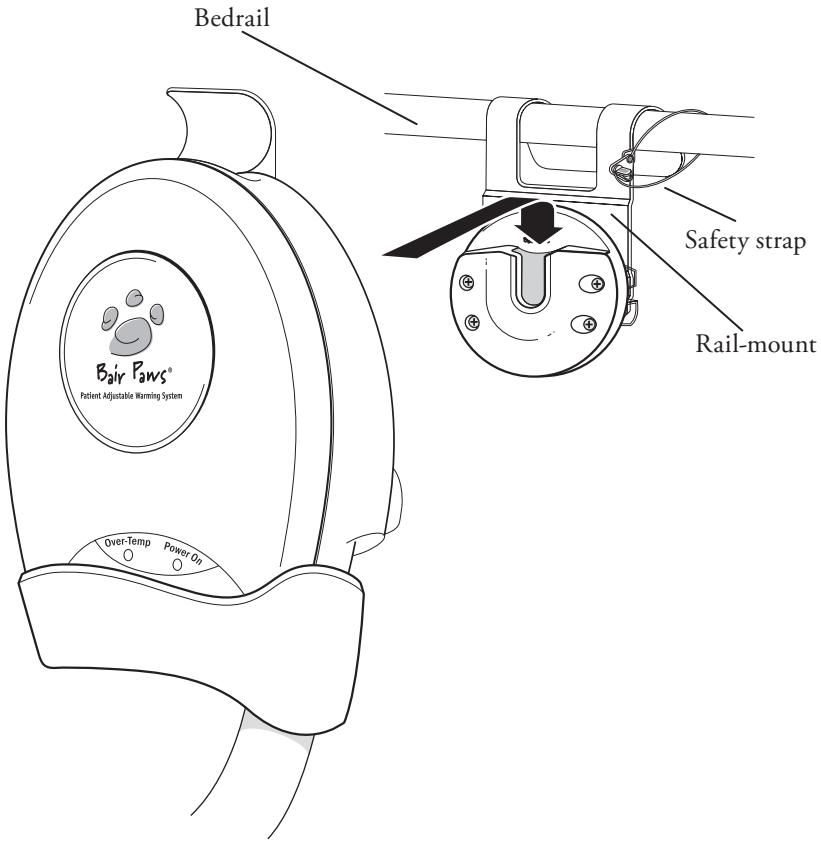


Figure 4. Mounting the warming unit on a bedrail using the rail-mount.

Mounting the Warming Unit with a Rail-mount to the Wall

Precaution: The rail-to-wall bracket is intended for use only with a Bair Paws 800 series warming unit.

Note: A minimum of two wall anchors must be used to secure the rail-to-wall bracket to the wall. Additional wall anchors (up to a total of four) can be used for extra support.

1. Using the wall-screw holes on the rail-to-wall bracket (see Figure 5) as a template, mark the position for the two wall anchors on the desired wall. The use of a level is recommended.
2. Install two suitable wall anchors at the marked position. If using the provided self-drilling wall anchors, use a Phillips screwdriver to screw the anchors into position. If installing into industrial-grade plasterboard, predrilling may be required.
3. Hold the rail-to-wall bracket in position against the wall.
4. Screw the two provided screws through the bracket holes and into the wall anchors.
5. If the warming unit is not already connected to the rail-mount, slide the clip on the back of the warming unit into the groove of the rail-mount. The assembly will click when the clip is fully seated in the rail-mount.
6. Hook the warming unit with the attached rail-mount to the rail-to-wall bracket as depicted in Figure 5.
7. Lift the warming unit straight up to remove it from the rail-to-wall bracket.

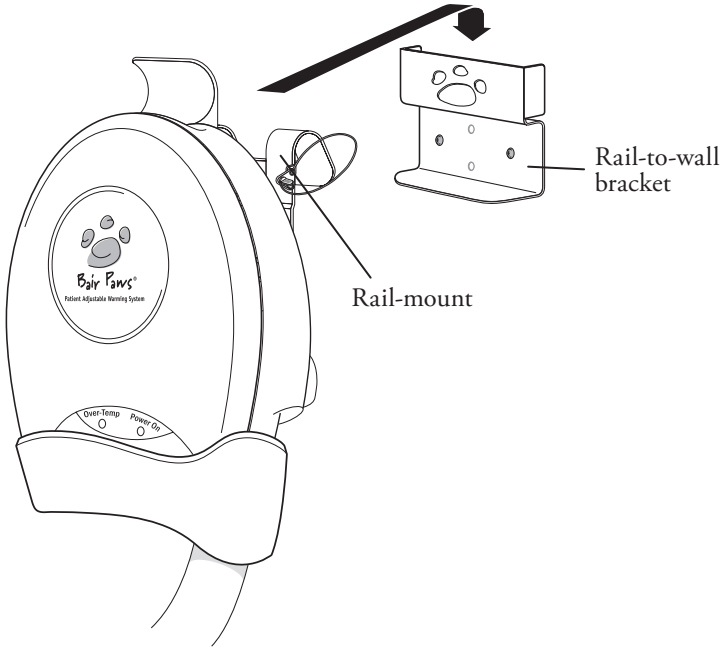


Figure 5. Placing the warming unit with a rail-mount onto the rail-to-wall bracket.

Using the Hand-held Temperature Controller

After the hose has been connected to the Bair Paws gown, the patient can adjust the air temperature and airflow by turning the knob on the temperature controller. The following list explains how the unit will operate when the knob is placed in the specified position shown in the figure.

- When the knob is in position A, the warming unit is OFF.
- As the knob is rotated from position A to B, the knob clicks and the warming unit turns on LOW AIRFLOW and LOW HEAT.
- By turning the knob from position B to C, the air temperature increases from slightly above room temperature to approximately 41˚C (106˚F), while the blower remains on LOW AIRFLOW.
- As the knob rotates clockwise past position C, the blower's airflow increases.
- At position D, the warming unit is on HIGH HEAT and HIGH AIRFLOW. The air temperature will stabilize at 43±3˚C (109±5.4˚F).

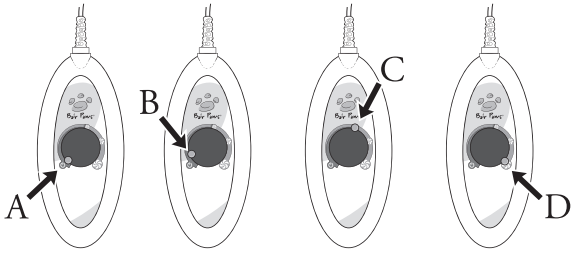


Figure 6: Important knob positions for the temperature controller.

Using the Holder for the Hand-held Temperature Controller

Store the hand-held temperature controller in the controller holder to help prevent cord clutter around the patient and accidental damage to the warming unit.

1. Press the holder onto the warming unit hose so it is within the patient's reach (see Figure 7).

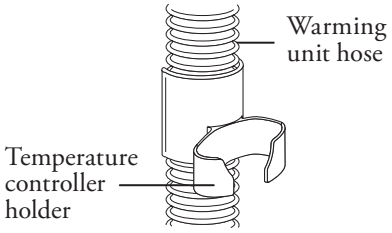


Figure 7. Controller holder.

2. Slide the temperature controller into the holder. It should fit securely with the dial facing the patient (see Figure 8).

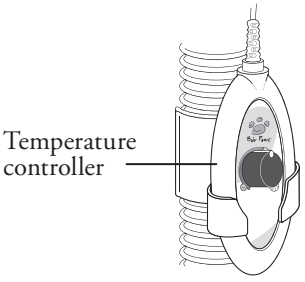


Figure 8. Temperature controller seated in holder.

Service Procedures

Calibrating the Operating Temperatures

Service Frequency

- Always recalibrate after performing service procedures.
- Routinely calibrate every 6 months.

Tools/Equipment Needed

- Model 90055 Temperature Test Kit (thermocouple included).
- 2-mm flat-headed screwdriver.
- Medium Phillips screwdriver.
- Calibrated thermometer.

Warnings

- The Model 875 hand-held temperature controller must be at its maximum (warmest) setting when calibrating; otherwise, temperature settings may be inaccurate and patient injury could result.
- Do not calibrate the Model 875 warming unit above 43°C; patient injury may result.

Precautions

- Perform all calibrations of the Model 875 warming unit using an Arizant Healthcare Model 90055 Temperature Test Kit.
- Perform calibration testing at an ambient temperature similar to the area where the Model 875 warming unit will be used.
- The Model 875 warming unit is intended for use in an ambient environment between 18 and 26°C (65 and 79°F).

Notes

The Model 90055 Temperature Test Kit simulates the operating characteristics of Bair Paws gown when used with the Bair Paws Patient Adjustable Warming System.

When using the Model 90055 Test Kit, take temperature readings using a calibrated thermometer that can accept a male, subminiature connector and read a "K" type thermocouple (e.g., a Fluke Model 52 K/J Thermometer). If the test unit's connector does not fit your thermometer, remove the connector from the test unit and attach a connector that fits your meter. Be certain to observe polarity.

Arizant Healthcare Inc. assumes no responsibility for the reliability, safety, or performance of the Model 875 warming unit if calibration tests or adjustments are made in any manner other than those described here. Improper measurement or adjustment of the normal operating temperature for the Model 875 unit could result in patient exposure to temperatures outside of the indicated range and may lead to patient injury.

Method

1. Turn the warming unit ON and select the maximum airflow and temperature by turning the temperature controller completely clockwise (refer to position D in Figure 6).
2. Press the clip buttons on the hose end and insert the hose end into the temperature test kit.
3. Allow the system to warm 10 minutes before starting the calibration.
4. Extend the hose straight to its full length. Remove the two screws that attach the case bottom (dark purple) to the warming unit and slide it down the hose.
5. Ensure the thermocouple is inserted through the grommet of the cylindrical test kit body. The thermocouple tip should be approximately centered in the cross section of the test kit (see Figure 9).

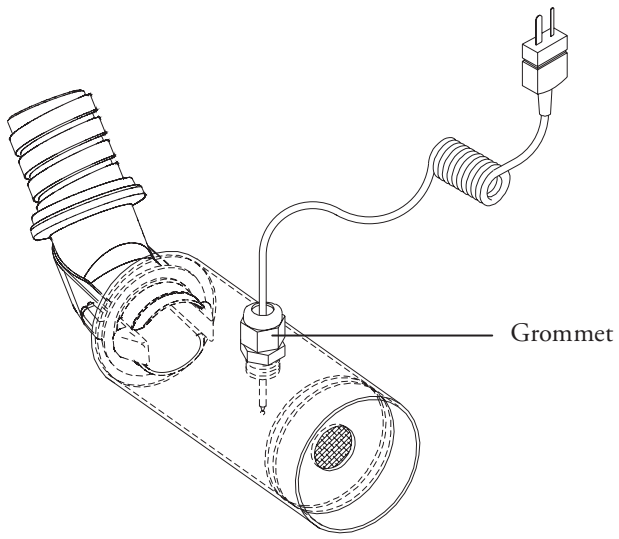


Figure 9. Test kit used to calibrate the Model 875 warming unit.

6. Insert a flat-headed, 2-mm screwdriver into the calibration access hole to a depth of approximately 1/2 inch (see Figure 10). Turn the pot very slowly until the steady state temperature reading is 43°C. Wait at least 5 minutes to ensure steady state (43.0±0.5°C).

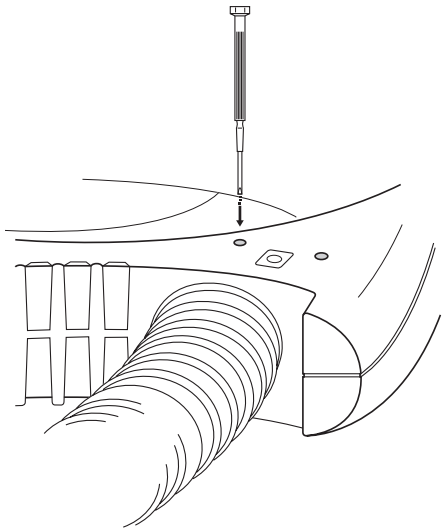


Figure 10. Calibration access hole to adjust pot.

7. Proceed to the next section to test the Over-temperature (OT) circuit.

Testing the Over-temperature (OT) Circuit

Service Frequency

Test every 6 months.

Tools/Equipment Needed

- Model 90055 Temperature Test Kit (thermocouple included).
- Small screwdriver.
- Medium Phillips screwdriver.
- Calibrated thermometer.

Precautions

- Perform all over-temperature circuit testing of the Model 875 warming unit using an Arizant Healthcare Model 90055 Temperature Test Kit.
- Perform all over-temperature circuit testing at an ambient temperature similar to the area where the Model 875 warming unit will be used.
- The Model 875 warming unit is intended for use in an ambient environment between 18 and 26°C (65 and 79°F).

Method

NOTE: The OT threshold temperature cannot be adjusted. If problems occur, contact Arizant Healthcare customer service.

1. If continuing from *Calibrating the Operating Temperatures*, skip to step 6; otherwise, proceed to the next step.
2. Turn the warming unit ON and select the maximum airflow and temperature setting by turning the controller knob completely clockwise (refer to position D in Figure 6).
3. Press the clip buttons on the hose end and insert the hose end into the temperature test kit.
4. Allow the system to warm 10 minutes before starting the test.
5. Extend the hose straight to its full length. If not already done, remove the two screws that attach the case bottom (dark purple) to the warming unit and slide it down the hose.

6. With a small screwdriver continuously press the OT test button (see Figure 11) for the duration of the over-temperature test.* When functioning properly, the "Over-Temp" indicator will illuminate and an audible alarm will sound. The peak test kit temperature will be below 56°C, and the heater will switch off within two minutes. If this does not occur, return the unit to Arizant Healthcare Inc. for service.

*Pressing the OT test button places the heater in a full-on, unregulated condition; therefore, the unit may become slightly warm to the touch.

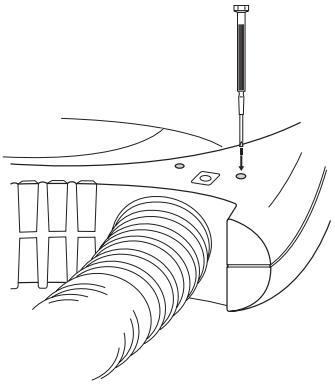


Figure 11.
OT test button hole

7. Turn the temperature controller to the OFF position to reset the alarm (position A, Figure 6). Wait ten seconds.
8. Turn the temperature controller to position B (Figure 6). After waiting several minutes, the thermocouple temperature should approach the ambient temperature.
9. Reposition the case bottom with the filter and attach to the warming unit with two screws.

Replacing the Filter

Service Frequency

Inspect the warming unit filter every three months and replace at least every six months.

Tools/Equipment Needed

- Medium Phillips screwdriver
- Replacement filters (available from Arizant Healthcare Customer Service)

Method

1. Disconnect the warming unit from the power source.
2. Remove the two screws that attach the case bottom (dark purple) to the warming unit.
3. Slide the case bottom down the hose, remove the used filter, and replace with a new filter.
4. Reposition the case bottom (with the new filter) and attach to the warming unit with the two screws.
5. Reconnect the warming unit to the power source and turn the temperature controller ON to make sure the warming unit functions properly before returning to service.

NOTE: Verify calibration and test the OT circuit if it has been longer than six months since it was last serviced.

Replacing the Temperature Controller and/or Hose

Tools/Equipment Needed

- Small Phillips screwdriver.
- Medium Phillips screwdriver.

Method

1. Disconnect the warming unit from the power source.
2. Remove the two screws that attach the case bottom (dark purple) to the warming unit, and slide the case bottom down the hose.
3. Remove the three screws on the back of the warming unit that hold the enclosures together (see Figure 12).

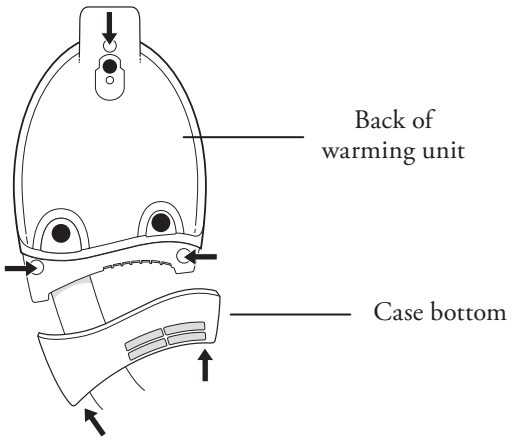


Figure 12. Removing the enclosure screws.

4. Flip the unit over and remove the cover. This will expose the control board.
5. Gently pull the end-of-hose coupler out of the warming unit by a few inches to expose the controller wire.

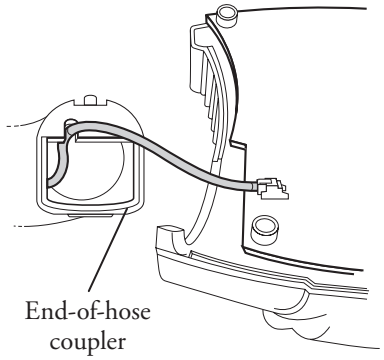


Figure 13. Pull the end-of-hose coupler out of the warming unit.

6. Disconnect the controller wire from the control board. You will have to depress the tab on the controller wire plug to free it from its port on the control board.

7. To replace the hose or controller remove the two screws that connect the wire collar to the mid-hose coupler and pull the wire out through the dedicated hole (see Figure 14). NOTE: If you are replacing both the hose and controller do not remove the wire collar from the hose. Proceed to Step 8.

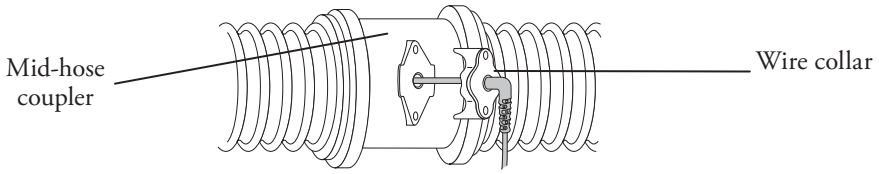


Figure 14. Removing the existing controller wire from the hose.

8. Using either a replacement temperature controller assembly and/or a replacement hose, thread the controller wire through the dedicated hole. Hold the hose vertical and let the wire plug drop through to the end-of-hose coupler.
9. Secure the wire collar to the mid-hose coupler with two screws.
10. If replacing the hose, transfer the case bottom onto the new hose.
11. Plug the controller wire into the port on the control board.

12. Making sure that the controller wire passes through the clearance slot, insert the end-of-hose coupler into the warming unit (see Figure 15).

Note: Ensure the end-of-hose coupler ridge is seated under the control board.

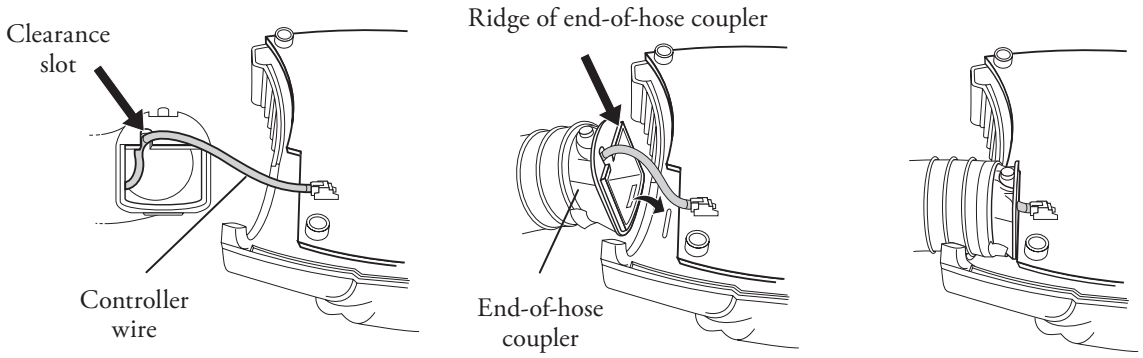


Figure 15. Inserting the end-of-hose coupler into the warming unit.

13. Replace the cover.
14. Install the three screws on the back of the unit.
15. Reposition the case bottom with the filter and attach to the warming unit with two screws.
16. Plug the unit into a proper power source.
17. Calibrate unit and test OT circuit.

Replacing the Power Cord

Tools/Equipment Needed

- Medium Phillips screwdriver.

Method

1. Disconnect the warming unit from the power source.
2. Loosen the two screws that secure the cord retainer to the warming unit. The screws should be backed out by 1/8" to allow the removal of the cord retainer (Figure 16).
   NOTE: Do not back the cord retainer screws out completely.
3. Rotate the cord retainer to free it from the screw heads and slide it off of the cord (Figure 17).
4. Pull the plug of the old cord out of the unit. Dispose of the old cord.
5. Insert the plug of the new cord into the unit.
6. Position the cord retainer onto the new cord.
7. Secure the cord retainer to the warming unit with the two screws.
8. Reconnect the warming unit to the power source and turn the temperature controller ON to make sure the warming unit functions properly before returning to service.

Figure 16. View of a fully installed cord retainer.

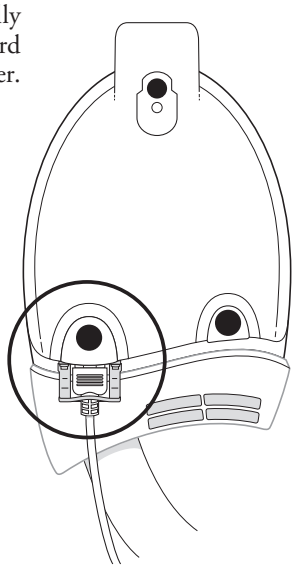
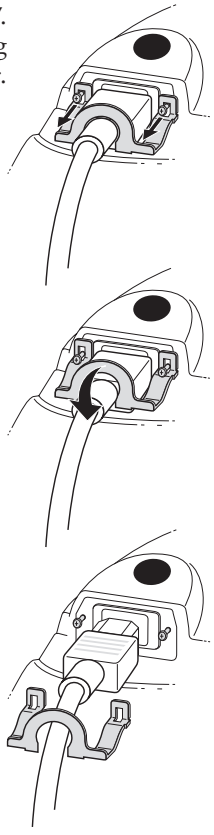


Figure 17. Uninstalling the cord retainer.



Cleaning the Warming Unit

Service Frequency

As needed.

Tools/Equipment Needed

- Soft cloth.
- Mild cleaning solution or antimicrobial spray*.
- Dry soft cloth.

Warning

Do not immerse any part of the warming unit in liquid while cleaning it. Moisture will damage the components, and thermal injury may result.

Precautions

- Do not use a dripping wet cloth to clean the warming unit. Moisture may seep into the electrical contacts and damage the components.
- Do not use harsh solvents to clean the warming unit.* Solvents may damage the labels and other plastic parts.

Method

1. Disconnect the warming unit from the power source before cleaning.
2. Wipe the cabinet, the temperature controller, and the outside of the hose with a damp, soft cloth and a mild cleaning solution or antimicrobial spray.
3. Dry with a separate soft cloth.

* WINDEX® multi-use liquid cleaner, ENVIROCIDE® disinfectant, and ALCONOX® industrial cleaner are three products that can be used to clean the equipment, as well as 3% household bleach, isopropanol, ethanol, ammonia or other phosphate-based glass cleaning solutions.

WINDEX is a registered trademark of S.C. Johnson & Son, Inc.
ENVIROCIDE is a registered trademark of Metrex Research Corporation
ALCONOX is a registered trademark of Alconox, inc.

Technical Support and Customer Service

U.S. Customer Service

TEL:
800-733-7775
952-947-1200

FAX:
800-775-0002
952-947-1400

When You Call for Technical Support

Please be ready to give the Technical Support Representative the serial number of your Bair Paws warming unit. The serial number is located on the back of the unit.

Repair and Exchange

Call Arizant Healthcare customer service if your Model 875 warming unit requires service. A customer service representative will give you a Return Authorization (RA) number. Please use this RA number on all correspondence concerning your warming unit. Your customer service representative will also send a shipping carton to you at no charge upon request.

Specifications

Physical Characteristics

DIMENSIONS OF WARMING UNIT	13 in. high x 4 in. deep x 7.7 in. wide 33.0 cm high x 10.2 cm deep x 19.6 cm wide
DIMENSIONS OF TEMPERATURE CONTROLLER	2.5 in. wide x 5.8 in. long 6.4 cm wide x 14.7 cm long
WEIGHT OF WARMING UNIT	7.0 lb; 3.2 kg.
MOUNTING OPTIONS	Wall mount bracket, IV pole clamp, and rail-mount bracket with safety strap.
HOSE	Detachable, flexible, and wipeable. 78 in. long x 1.5 in. wide; 198 cm long x 3.8 cm wide
FILTRATION SYSTEM	Dust filter included.
RECOMMENDED FILTER CHANGE	Change at least every 6 mo.

Temperature Characteristics

TEMPERATURE CONTROL	Electronically controlled using integrated circuit sensor.
HEAT GENERATED	1000 BTU/hr (average)
AVERAGE OPERATING TEMPERATURES AT THE END OF THE HOSE	User adjustable from ambient to 43°±3°C (109°±5.4°F)
RECOMMENDED ENVIRONMENT TEMPERATURE RANGE	18° to 26°C (65° to 79°F)

Safety System Characteristics

THERMOSTAT	Independent electronic and heater (electromechanical)
OVERCURRENT PROTECTION	Dual input fused lines.
SAFETY FEATURE	Over-temperature protection: color indicator light illuminates, audible alarm sounds, and heater shuts down (blower continues to run).
CERTIFICATIONS	IEC 60601-1: UL 60601-1; CAN/CSA-C22.2, No. 601.1; EN 60601-1-2; EN 55011; ASTM F2196-02
CLASSIFICATIONS	Classified under EN 60601-1 Guidelines (and other national versions of the Guidelines) as Class I, Type BF, Ordinary equipment, Continuous operation. Not suitable for use in the presence of flammable anesthetic mixtures with air or with oxygen or nitrous oxide. Classified by Underwriters Laboratories Inc. with respect to electric shock, fire, and mechanical hazards only, in accordance with UL 60601-1, ASTM F2196-02, and Canadian/CSA C22.2, No. 601.1. Classified under the Medical Device Directive as a Class IIb device.

Electrical Characteristics

BLOWER MOTOR	Airflow: 7-13 cfm (3.3-6.1 $^{L}/_{S}$)
POWER CONSUMPTION	Peak: 600W Average: 340W
LEAKAGE CURRENT	Meets IEC 60601-1 and UL 60601-1 requirements
HEATING ELEMENT	480 W Resistive
POWER CORD	15-foot, SJT, 3 cond., 15A 4.6m, HAR, 3 cond., 10A
DEVICE RATINGS	110-120 VAC, 50/60Hz, 4.6A 220-240 VAC, 50/60Hz, 2.8A
FUSES	6.0 (110-120V); 4.0 (220-240V)
TEMPERATURE CONTROLLER CORD	32” from hose collar, 4 cond., Max. voltage: 5V

Definition of Symbols

The following symbols may appear on the product, on the exterior packaging, or in the product labeling.

ON/STANDBY

Increase temperature and airflow

Temperature control

Equipotentiality plug (ground)

Fuse

Attention, consult accompanying documents

Dangerous voltage

Type BF equipment (patient applied)

Voltage, alternating current (AC)

Protective earth ground

Ground

No free hosing

Maintenance Log

Date	Maintenance Action Performed

Maintenance Log

Date	Maintenance Action Performed

Maintenance Log

Date	Maintenance Action Performed

Maintenance Log

Date	Maintenance Action Performed

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CE 0470

Authorized Representative in the European Community (as defined in Article 14 of the Medical Device Directive: 93/42/EEC): Arizant UK Ltd., Calder Island Way, Wakefield, WF2 7AW
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